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Ompusos SL029

Ompusos LED Smart Adult Bike Helmet Instruction Manual

Brand: Ompusos | Model: SL029

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Ompusos LED Smart Adult Bike Helmet. Designed to enhance your riding experience, this 4-in-1 helmet features an integrated LED light system with taillight, turn signals, speedometer, and programmable app control. It offers unparalleled convenience and safety for cycling, skiing, or commuting.



Figure 1: Ompusos LED Smart Adult Bike Helmet showcasing its LED display capabilities.

2. KEY FEATURES

- **Multifunctional Smart Design:** Integrates LED taillight, turn signals, speedometer, and programmable app control for enhanced safety and convenience across various activities like cycling, skiing, and commuting.
- **APP Control & DIY Features:** Connects via Bluetooth to the "Shining Display" app, allowing automatic LED adjustments based on riding direction and speed, and enabling custom animations, text, and designs.
- **Remote Control:** Includes a handlebar-mountable remote for easy activation of turn signals, brake lights, and custom display patterns without needing phone access.
- **Excellent Safety Protection:** Certified to CPSC, CE, and EN1078 standards, featuring a one-piece design with durable EPS and PC shells for superior shock absorption.
- **Smart LED Display for Maximum Visibility:** Built-in LED rear light with 576 bright LEDs ensures exceptional visibility. IPX3 waterproof rating for all-weather use.
- **Long-lasting Battery:** Type-C charging port allows full charge in 4 hours, providing up to 12 hours of continuous use.

- **Comfortable & Adjustable Fit:** Fits head sizes 22.8 to 24 inches (58-61 cm) with an adjustable dial. Lightweight (0.8 lbs/368g) with 8 breathable vents and removable, washable inner lining.

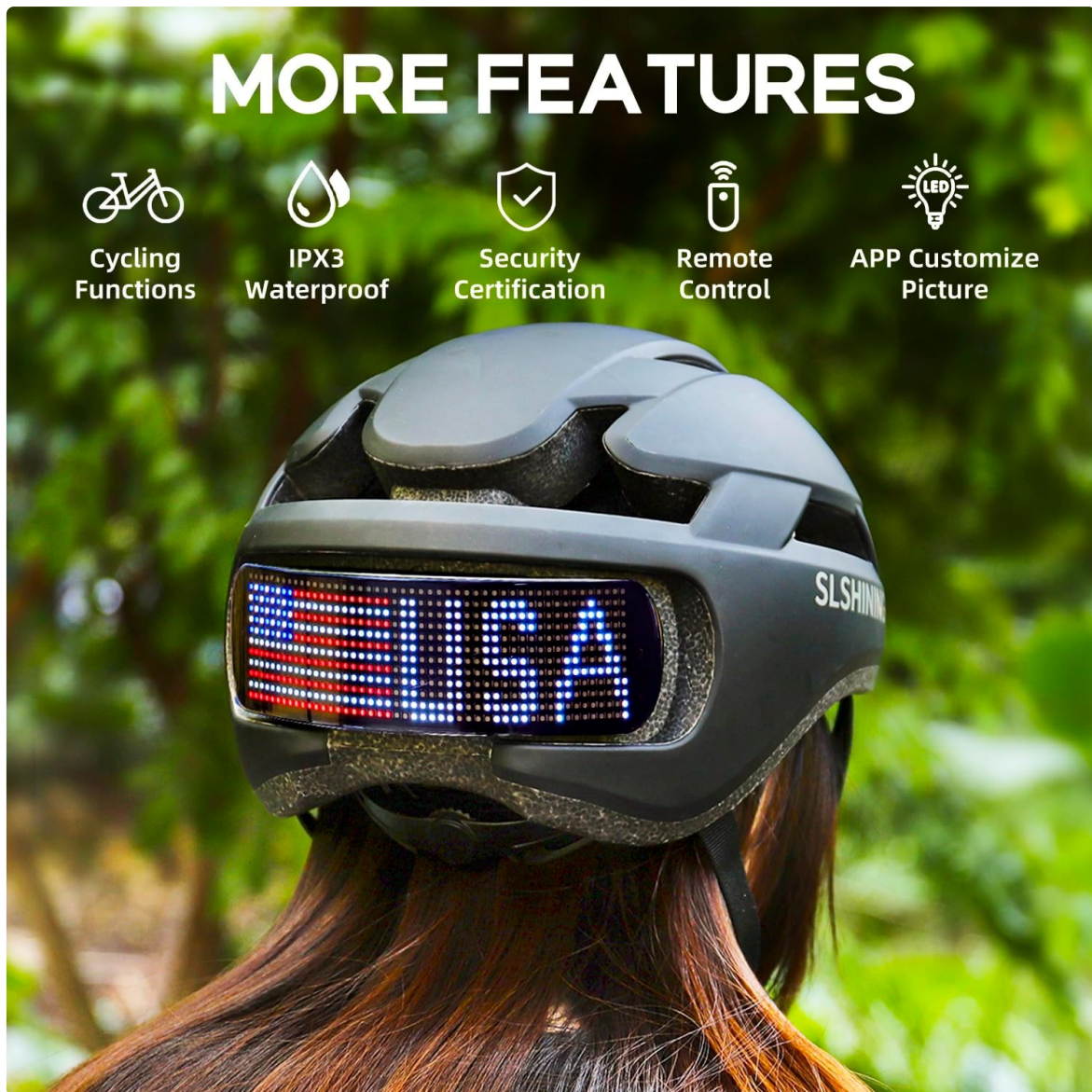


Figure 2: Overview of the helmet's key features.

3. SETUP

3.1. Helmet Adjustment

Ensure a secure and comfortable fit by adjusting the helmet to your head size. The helmet fits head sizes from 22.8 to 24 inches (58-61 cm). Use the adjustable dial at the back of the helmet to tighten or loosen the fit. The soft, sweat-absorbent inner lining and chin pads are removable and washable for hygiene.

ADJUSTABLE COMFORTABLE & SECURE



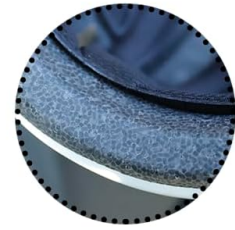
**Replaceable &
Washable Linner
Lining**



**Replaceable &
Washable Chin Pads**



**Adjustable
Dial-retention**



**Impact-absorbing
EPS Foam**



**Quick Release
Safety Buckle**



**Breathable
Design**

Figure 3: Adjustable and comfortable fit features of the helmet.

HELMET SIZE CHART

How to measure?

To determine whether the Ompusos is the right fit for you, wrap a measuring tape around your head, just above your eyebrows and compare it to the Ompusos size chart.



22.8-24in/58-61cm

Our helmets feature an adjustable dial for easy fine-tuning to your comfort. Simply twist the dial for a snug fit or to loosen as needed.

Figure 4: How to measure your head for the correct helmet fit.

3.2. Charging the Helmet

Before first use, fully charge the helmet. The helmet features a Type-C charging port. A full charge takes approximately 4 hours and provides up to 12 hours of continuous use.

Video 1: Demonstrates how to charge the helmet and its battery life.

3.3. Remote Control Setup

The helmet includes a remote control for convenient operation. Attach the remote to your bike's handlebars using the provided strap. This allows you to activate turn signals, brake lights, and switch display patterns without accessing your phone.



Figure 5: Remote control for helmet functions.

3.4. App Connection

Download the "Shining Display" app from your device's app store. Once installed, open the app and follow the on-screen instructions to connect your helmet via Bluetooth. This unlocks advanced features and customization options.



Figure 6: Connecting the helmet to the "Shining Display" app.

Video 2: Shows the process of connecting the helmet to the mobile application.

4. OPERATING INSTRUCTIONS

4.1. Power On/Off

To power on or off the helmet's LED display, long press the power button located on the helmet's rear.

4.2. Remote Control Usage

Use the remote control to manage essential functions while riding:

- **Turn Signals:** Press the left or right arrow buttons to activate the corresponding turn signal.
- **Brake Light:** Press the "STOP" button to display a brake signal.
- **Switch Patterns:** Use the up and down arrow buttons to cycle through various pre-programmed LED patterns.

Video 3: Demonstrates remote control functions including turn signals and pattern switching.

4.3. App Control Usage

The "Shining Display" app offers extensive customization and real-time data:

- **Cycling Mode:** The app's "Auto" mode automatically adjusts the LED display to show your riding direction, speed, and real-time changes. It displays "GO" while moving, "STOP" when braking, and left/right turn signals based on your movements.
- **Custom Patterns & Animations:** Browse and select from a library of pre-designed patterns or upload your own custom animations.
- **Text & Graffiti:** Type custom text messages or draw your own designs using the graffiti feature, which will then be displayed on the helmet's LED screen.
- **Rhythm Mode:** Sync the LED display to music, creating dynamic visual effects.

Video 4: Comprehensive demonstration of the app's various display modes and customization options.

5. MAINTENANCE

5.1. Cleaning

Regularly clean the helmet's exterior with a soft, damp cloth. Avoid harsh chemicals or abrasive materials that could damage the finish or LED screen. The helmet has an IPX3 waterproof rating, meaning it is resistant to water spray, but should not be submerged.

5.2. Lining and Chin Pad Care

The inner lining and chin pads are removable for easy washing. Gently detach them, hand wash with mild soap and water, and allow them to air dry completely before reattaching. This ensures a fresh and comfortable feel for every ride.

5.3. Battery Care

To prolong battery life, avoid fully discharging the helmet frequently. Charge the helmet regularly, even if not in constant use. Store the helmet in a cool, dry place away from extreme temperatures.

6. SAFETY INFORMATION

Your Ompusos LED Smart Adult Bike Helmet is certified for top-tier safety, meeting CPSC, CE, and EN1078 standards. It features a one-piece design with durable EPS (Expanded Polystyrene) and PC (Polycarbonate) shells, providing superior shock absorption. Always ensure the helmet is properly adjusted and securely fastened before riding. The LED display is designed to increase visibility, especially at night, but should not replace proper lighting on your bicycle.



Figure 7: Helmet demonstrating its waterproof and impact-absorbing features.

7. TROUBLESHOOTING

If you experience any issues with your helmet, please refer to the following common problems or contact customer support for assistance.

- **LED Display Not Turning On:** Ensure the helmet is fully charged. Long press the power button firmly.
- **App Connectivity Issues:** Make sure Bluetooth is enabled on your device and the helmet is within range. Try restarting both the app and the helmet.
- **Remote Control Not Responding:** Check the battery in the remote control (CR2032 coin cell). Ensure it is securely mounted and within range of the helmet.
- **Inaccurate Speedometer Reading:** Ensure the helmet is properly connected to the app and that the app has necessary permissions for location services.

For further assistance, please contact Ompusos customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	Ompusos
Model Name	SL029
Color	Black
Age Range	Adult
Size	22.8"-24" (58-61 cm)
Special Features	Rear Light, Lightweight, Turn Signals, Adjustable Strap, Programmable Patterns
Outer Material	Polycarbonate (PC), Expanded Polystyrene (EPS)
Inner Material	Expanded Polystyrene
Item Weight	0.8 Pounds (368g)
Waterproof Rating	IPX3
Battery Life	Up to 12 hours
Charging Port	Type-C
Certifications	CPSC, CE, EN1078
Included Components	Helmet, T-C Charging Cable, Remote, Instruction Manual

9. WARRANTY & SUPPORT

Your Ompusos LED Smart Adult Bike Helmet comes with a **1-year warranty** from the date of purchase.

If you encounter any issues with the helmet or require technical support, please contact Ompusos customer service for a prompt solution. Refer to the contact information provided with your product packaging or on the official Ompusos website.